Terms used
**waveguide? sentence design** and **acoustic** and **section?** and **concatenat**

Found **8,812** of **178,880**

Sort results by: relevance
Display results: expanded form
Save results to a Binder
Search Tips
Open results in a new window

Try an Advanced Search
Try this search in The ACM Guide

Results 1 - 20 of 200 Result page: **1** 2 3 4 5 6 7 8 9 10 next
Best 200 shown
Relevance scale

1 Applications II: Repeating pattern discovery and structure analysis from acoustic music data
Lie Lu, Muyuan Wang, Hong-Jiang Zhang
October 2004 **Proceedings of the 6th ACM SIGMM international workshop on Multimedia information retrieval**
**Publisher:** ACM Press
Full text available: pdf(380.44 KB) Additional Information: full citation, abstract, references, index terms

Music and songs usually have repeating patterns and prominent structure. The automatic extraction of such repeating patterns and structure is useful for further music summarization, indexing and retrieval. In this paper, an effective approach of repeating pattern discovery and structure analysis of acoustic music data is proposed. In order to represent the melody similarity more accurately, in our approach, Constant Q transform is utilized in feature extraction and a novel similarity measure ...

**Keywords**: CQT, music structure, repeating pattern, structure-based distance measure

2 Analysis and modeling of F0 contours for cantonese text-to-speech
Yujia Li, Tan Lee, Yao Qian
September 2004 **ACM Transactions on Asian Language Information Processing (TALIP)**, Volume 3 Issue 3
**Publisher:** ACM Press
Full text available: pdf(969.61 KB) Additional Information: full citation, abstract, references, index terms

For the generation of highly natural synthetic speech, the control of prosody is of primary importance. The fundamental frequency (F0) is one of the most important components of speech prosody. This research investigates the variation of F0 in continuous Cantonese speech, with the goal of establishing an effective mechanism of prosody control in Cantonese text-to-speech (TTS) applications. Cantonese is a commonly used Chinese dialect that is well known for being rich in tones. This article de ...

**Keywords**: Chinese dialects, Text-to-speech, fundamental frequency, prosody, tones

3 Real-time acoustic modeling for distributed virtual environments
Thomas Funkhouser, Patrick Min, Ingrid Carlbom

July 1999 **Proceedings of the 26th annual conference on Computer graphics and interactive techniques**
**Publisher:** ACM Press/Addison-Wesley Publishing Co.
Full text available: pdf(262.94 KB) Additional Information: full citation, references, citings, index terms

**Keywords**: acoustic modeling, auralization, beam tracing, virtual environment systems, virtual reality

4 Voice response systems
D L. Lee, F H. Lochovsky
December 1983 **ACM Computing Surveys (CSUR)**, Volume 15 Issue 4
**Publisher:** ACM Press
Full text available: pdf(2.22 MB) Additional Information: full citation, references, index terms

5 Voice fonts for individuality representation and transformation
Ashish Verma, Arun Kumar
February 2005 **ACM Transactions on Speech and Language Processing (TSLP)**, Volume 2 Issue 1
**Publisher:** ACM Press
Full text available: pdf(201.04 KB) Additional Information: full citation, abstract, references, index terms

Speaker individuality transformation is used to modify the speech signal's characteristics so that it sounds as if it is spoken by another speaker. Previous methods for individuality transformation use mapping functions which depend upon a pair of speakers. We introduce the paradigm of voice fonts to represent the individuality of a speaker, independent of other speakers. Several objective and subjective tests are conducted to evaluate the performance of the approaches proposed for the voice fon ...

**Keywords**: Speech individuality, voice conversion, voice fonts

6 Acoustic modeling: Minimizing speaker variation effects for speaker-independent speech recognition
Xuedong Huang
February 1992 **Proceedings of the workshop on Speech and Natural Language HLT '91**
**Publisher:** Association for Computational Linguistics
Full text available: pdf(605.36 KB) Additional Information: full citation, abstract, references

For speaker-independent speech recognition, speaker variation is one of the major error sources. In this paper, a speaker-independent normalization network is constructed such that speaker variation effects can be minimized. To achieve this goal, multiple speaker clusters are constructed from the speaker-independent training database. A codeword-dependent neural network is associated with each speaker cluster. The cluster that contains the largest number of speakers is designated as the golden c ...

7 Acoustic modeling: Subphonetic modeling for speech recognition
Mei-Yuh Hwang, Xuedong Huang
February 1992 **Proceedings of the workshop on Speech and Natural Language HLT '91**
**Publisher:** Association for Computational Linguistics
Full text available: pdf(611.33 KB) Additional Information: full citation, abstract, references

How to capture important acoustic clues and estimate essential parameters reliably is one

of the central issues in speech recognition, since we will never have sufficient training data to model various acoustic-phonetic phenomena. Successful examples include subword models with many smoothing techniques. In comparison with subword models, subphonetic modeling may provide a finer level of details. We propose to model subphonetic events with Markov states and treat the state in phonetic hidden Mar ...

8 Spoken dialogue technology: enabling the conversational user interface

Michael F. McTear
March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1
**Publisher:** ACM Press

Full text available: pdf(987.69 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerc ...

**Keywords**: Dialogue management, human computer interaction, language generation, language understanding, speech recognition, speech synthesis

9 The Hearsay-II Speech-Understanding System: Integrating Knowledge to Resolve Uncertainty

Lee D. Erman, Frederick Hayes-Roth, Victor R. Lesser, D. Raj Reddy
June 1980 **ACM Computing Surveys (CSUR)**, Volume 12 Issue 2
**Publisher:** ACM Press
Full text available: pdf(3.83 MB) Additional Information: full citation, references, citings, index terms

10 Continuous speech recognition I: Acoustic modeling of subword units for large vocabulary speaker independent speech recognition

Chin-Hui Lee, Lawrence R. Rabiner, Roberto Pieraccini, Jay G. Wilpon
October 1989 **Proceedings of the workshop on Speech and Natural Language HLT '89**
**Publisher:** Association for Computational Linguistics
Full text available: pdf(904.19 KB) Additional Information: full citation, abstract, references

The field of large vocabulary, continuous speech recognition has advanced to the point where there are several systems capable of attaining between 90 and 95% word accuracy for speaker independent recognition of a 1000 word vocabulary, spoken fluently for a task with a perplexity (average word branching factor) of about 60. There are several factors which account for the high performance achieved by these systems, including the use of hidden Markov models (HMM) for acoustic modeling, the use of ...

11 Video Processing: Multimedia edges: finding hierarchy in all dimensions

Malcolm Slaney, Dulce Ponceleon, James Kaufman
October 2001 **Proceedings of the ninth ACM international conference on Multimedia**
**Publisher:** ACM Press

Full text available: pdf(6.41 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes a new unified representation for the informaćtion in a video. We reduce the dimensionality of the signal with either a singular-value decomposition (on the

semantic and image data) or mel-frequency cepstral coefficients (on the audio data) and then concatenate the vectors to form a multi-dimensional represen¿tation of the video. Using scale-space techniques we find large jumps in the video's path, which we call edges. We use these tech¿niques to analyze the temporal properti ...

**Keywords**: audio, automatic segmentation, color space, hierarchy, images, latent semantic indexing, multimedia, video, scale space, semantic space, singular-value decomposition, temporal properties

**12** Semiring parsing

Joshua Goodman

December 1999 **Computational Linguistics**, Volume 25 Issue 4

**Publisher:** MIT Press

Full text available: pdf(2.13 MB) Additional Information: full citation, abstract, references, citings

Publisher Site

We synthesize work on parsing algorithms, deductive parsing, and the theory of algebra applied to formal languages into a general system for describing parsers. Each parser performs abstract computations using the operations of a semiring. The system allows a single, simple representation to be used for describing parsers that compute recognition, derivation forests, Viterbi, n-best, inside values, and other values, simply by substituting the operations of different semirings. We also show how t ...

**13** Using tone information in Cantonese continuous speech recognition

Tan Lee, Wai Lau, Y. W. Wong, P. C. Ching

March 2002 **ACM Transactions on Asian Language Information Processing (TALIP)**, Volume 1 Issue 1

**Publisher:** ACM Press

Full text available: pdf(800.46 KB) Additional Information: full citation, abstract, references, index terms

In Chinese languages, tones carry important information at various linguistic levels. This research is based on the belief that tone information, if acquired accurately and utilized effectively, contributes to the automatic speech recognition of Chinese. In particular, we focus on the Cantonese dialect, which is spoken by tens of millions of people in Southern China and Hong Kong. Cantonese is well known for its complicated tone system, which makes automatic tone recognition very difficult. This ...

**Keywords**: Chinese dialects, F0 normalization, knowledge integration, speech recognition, tone recognition

**14** Poster session 1: A segment-based audio-visual speech recognizer: data collection, development, and initial experiments

Timothy J. Hazen, Kate Saenko, Chia-Hao La, James R. Glass

October 2004 **Proceedings of the 6th international conference on Multimodal interfaces**

**Publisher:** ACM Press

Full text available: pdf(276.15 KB) Additional Information: full citation, abstract, references, index terms

This paper presents the development and evaluation of a speaker-independent audio-visual speech recognition (AVSR) system that utilizes a segment-based modeling strategy. To support this research, we have collected a new video corpus, called Audio-Visual TIMIT (AV-TIMIT), which consists of 4 total hours of read speech collected from 223 different speakers. This new corpus was used to evaluate our new AVSR system which incorporates a novel audio-visual integration scheme using segment-constrai ...

**Keywords**: audio-visual corpora, audio-visual speech recognition

15 Video Rewrite: driving visual speech with audio

Christoph Bregler, Michele Covell, Malcolm Slaney

August 1997 **Proceedings of the 24th annual conference on Computer graphics and interactive techniques**

**Publisher:** ACM Press/Addison-Wesley Publishing Co.

Full text available: pdf(179.44 KB) Additional Information: full citation, references, citings, index terms

**Keywords**: facial animation, lip sync

16 Audio-visual speech recognition using red exclusion and neural networks

Trent W. Lewis, David M. W. Powers

January 2002 **Australian Computer Science Communications , Proceedings of the twenty-fifth Australasian conference on Computer science - Volume 4 CRPITS '02**, Volume 24 Issue 1

**Publisher:** Australian Computer Society, Inc. , IEEE Computer Society Press

Full text available: pdf(984.26 KB) Additional Information: full citation, abstract, references, index terms

Automatic speech recognition (ASR) performs well under restricted conditions, but performance degrades in noisy environments. Audio-Visual Speech Recognition (AVSR) combats this by incorporating a visual signal into the recognition. This paper briefly reviews the contribution of psycholinguistics to this endeavour and the recent advances in machine AVSR. An important first step in AVSR is that of feature extraction from the mouth region and a technique developed by the authors is breifly present ...

**Keywords**: audio-visual speech recogition, neural networks, sensor fusion

17 ISIS: an adaptive, trilingual conversational system with interleaving interaction and delegation dialogs

Helen Meng, P. C. Ching, Shuk Fong Chan, Yee Fong Wong, Cheong Chat Chan

September 2004 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 11 Issue 3

**Publisher:** ACM Press

Full text available: pdf(3.71 MB) Additional Information: full citation, abstract, references, index terms

ISIS (Intelligent Speech for Information Systems) is a trilingual spoken dialog system (SDS) for the stocks domain. It handles two dialects of Chinese (Cantonese and Putonghua) as well as English---the predominant languages in our region. The system supports spoken language queries regarding stock market information and simulated personal portfolios. The conversational interface is augmented with a screen display that can capture mouse-clicks as well as textual input by typing or stylus-writing. ...

**Keywords**: Human-computer spoken language interface, interaction and delegation dialogs

18 Document and passage retrieval based on hidden Markov models

Elke Mittendorf, Peter Schäuble

August 1994 **Proceedings of the 17th annual international ACM SIGIR conference on Research and development in information retrieval**

**Publisher:** Springer-Verlag New York, Inc.

Full text available: pdf(827.36 KB) Additional Information: full citation, references, citings, index terms

**19** Music: Automated extraction of music snippets

Lie Lu, Hong-Jiang Zhang
November 2003 **Proceedings of the eleventh ACM international conference on Multimedia**
**Publisher:** ACM Press

Full text available: pdf(316.12 KB) Additional Information: full citation, abstract, references, citings, index terms

Similar to image and video thumbnail, music snippet is defined as the most representative or highlight excerpt of a music clip, and can be used efficiently for fast browsing large number of music files. Music snippet is usually a part of the repeated melody, main theme or chorus. In this paper, we present an approach to extracting music snippet automatically. In our approach, the most salient segment of the music is firstly detected based on its occurrence frequency and energy information. Meanw ...

**Keywords**: music saliency, music snippet, music structure, music thumbnail, musical phrase, tempo estimation

**20** Recursive hashing functions for n-grams

Jonathan D. Cohen
July 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 3
**Publisher:** ACM Press

Full text available: pdf(361.86 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Many indexing, retrieval, and comparison methods are based on counting or cataloguing n-grams in streams of symbols. The fastest method of implementing such operations is through the use of hash tables. Rapid hashing of consecutive n-grams is best done using a recursive hash function, in which the hash value of the current n-gram is drived from the hash value of its predecessor. This article generalizes recursive hash functions found in the ...

**Keywords**: n-grams, hashing, hashing functions, recursive hashing

Terms used
**waveguide? sentence design** and **acoustic** and **section?** and **model**

Found **75,951** of **178,880**

Sort results by: relevance
Display results: expanded form
Save results to a Binder
Search Tips
Open results in a new window

Try an Advanced Search
Try this search in The ACM Guide

Results 1 - 20 of 200 Result page: **1** 2 3 4 5 6 7 8 9 10 next
Best 200 shown
Relevance scale

1 Real-time acoustic modeling for distributed virtual environments

Thomas Funkhouser, Patrick Min, Ingrid Carlbom
July 1999 **Proceedings of the 26th annual conference on Computer graphics and interactive techniques**
**Publisher:** ACM Press/Addison-Wesley Publishing Co.
Full text available: pdf(262.94 KB) Additional Information: full citation, references, citings, index terms

**Keywords**: acoustic modeling, auralization, beam tracing, virtual environment systems, virtual reality

2 A beam tracing approach to acoustic modeling for interactive virtual environments

Thomas Funkhouser, Ingrid Carlbom, Gary Elko, Gopal Pingali, Mohan Sondhi, Jim West
July 1998 **Proceedings of the 25th annual conference on Computer graphics and interactive techniques**
**Publisher:** ACM Press
Full text available: pdf(325.10 KB) Additional Information: full citation, references, citings, index terms

**Keywords**: acoustic modeling, auralization, beam tracing, spatialized sound, virtual environment systems, virtual reality

3 Dialogue act modeling for automatic tagging and recognition of conversational speech

Andreas Stolcke, Noah Coccaro, Rebecca Bates, Paul Taylor, Carol Van Ess-Dykema, Klaus Ries, Elizabeth Shriberg, Daniel Jurafsky, Rachel Martin, Marie Meteer
September 2000 **Computational Linguistics**, Volume 26 Issue 3
**Publisher:** MIT Press
Full text available: pdf(2.53 MB) Additional Information: full citation, abstract, references, citings
Publisher Site

We describe a statistical approach for modeling dialogue acts in conversational speech, i.e., speech-act-like units such as STATEMENT, QUESTION, BACKCHANNEL, AGREEMENT,

DISAGREEMENT, and APOLOGY. Our model detects and predicts dialogue acts based on lexical, collocational, and prosodic cues, as well as on the discourse coherence of the dialogue act sequence. The dialogue model is based on treating the discourse structure of a conversation as a hidden ...

4 Speech repairs, intonational phrases, and discourse markers: modeling speakers' utterances in spoken dialogue

Peter A. Heeman, James F. Allen

December 1999 **Computational Linguistics**, Volume 25 Issue 4

**Publisher:** MIT Press

Full text available: pdf(3.03 MB) Additional Information: full citation, abstract, references, citings

Publisher Site

Interactive spoken dialogue provides many new challenges for natural language understanding systems. One of the most critical challenges is simply determining the speaker's intended utterances: both segmenting a speaker's turn into utterances and determining the intended words in each utterance. Even assuming perfect word recognition, the latter problem is complicated by the occurrence of speech repairs, which occur where speakers go back and change (or repeat) something they just said. The word ...

5 Technical papers: Three-dimensional routing in underwater acoustic sensor networks

Dario Pompili, Tommaso Melodia

October 2005 **Proceedings of the 2nd ACM international workshop on Performance evaluation of wireless ad hoc, sensor, and ubiquitous networks PE-WASUN '05**

**Publisher:** ACM Press

Full text available: pdf(379.93 KB) Additional Information: full citation, abstract, references, index terms

Underwater sensor networks will find applications in oceanographic data collection, pollution monitoring, offshore exploration, disaster prevention, assisted navigation, and tactical surveillance applications. In this paper, the problem of data gathering in a 3D underwater acoustic sensor network is investigated at the network layer, by considering the interactions between the routing functions and the characteristics of the underwater channel. Two routing algorithms are proposed for delay-insen ...

**Keywords:** mathematical programming/optimization, routing algorithms, underwater acoustic sensor networks

6 Acoustic modeling: Minimizing speaker variation effects for speaker-independent speech recognition

Xuedong Huang

February 1992 **Proceedings of the workshop on Speech and Natural Language HLT '91**

**Publisher:** Association for Computational Linguistics

Full text available: pdf(605.36 KB) Additional Information: full citation, abstract, references

For speaker-independent speech recognition, speaker variation is one of the major error sources. In this paper, a speaker-independent normalization network is constructed such that speaker variation effects can be minimized. To achieve this goal, multiple speaker clusters are constructed from the speaker-independent training database. A codeword-dependent neural network is associated with each speaker cluster. The cluster that contains the largest number of speakers is designated as the golden c ...

7 Technicial session 5: student best paper contest: LyricAlly: automatic synchronization

of acoustic musical signals and textual lyrics
Ye Wang, Min-Yen Kan, Tin Lay Nwe, Arun Shenoy, Jun Yin
October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**
**Publisher:** ACM Press
Full text available: pdf(485.10 KB) Additional Information: full citation, abstract, references, index terms

We present a prototype that automatically aligns acoustic musical signals with their corresponding textual lyrics, in a manner similar to manually-aligned karaoke. We tackle this problem using a multimodal approach, where the appropriate pairing of audio and text processing helps create a more accurate system. Our audio processing technique uses a combination of top-down and bottom-up approaches, combining the strength of low-level audio features and high-level musical knowledge to determine ...

**Keywords**: audio/text synergy, karaoke, lyric alignment, music knowledge, vocal detection

8 Attacking passwords and bringing down the network: Keyboard acoustic emanations revisited
Li Zhuang, Feng Zhou, J. D. Tygar
November 2005 **Proceedings of the 12th ACM conference on Computer and communications security CCS '05**
**Publisher:** ACM Press
Full text available: pdf(198.94 KB) Additional Information: full citation, abstract, references, index terms

We examine the problem of keyboard acoustic emanations. We present a novel attack taking as input a 10-minute sound recording of a user typing English text using a keyboard, and then recovering up to 96% of typed characters. There is no need for a labeled training recording. Moreover the recognizer bootstrapped this way can even recognize random text such as passwords: In our experiments, 90% of 5-character random passwords using only letters can be generated in fewer than 20 attempts by an adve ...

**Keywords**: HMM, acoustic emanations, cepstrum, computer security, electronic eavesdropping, hidden Markov models, human factors, keyboards, learning theory, privacy, signal analysis

9 Acoustic environment as an indicator of social and physical context
Dan Smith, Ling Ma, Nick Ryan
March 2006 **Personal and Ubiquitous Computing**, Volume 10 Issue 4
**Publisher:** Springer-Verlag
Full text available: pdf(731.76 KB) Additional Information: full citation, abstract

Acoustic environments provide many valuable cues for context-aware computing applications. From the acoustic environment we can infer the types of activity, communication modes and other actors involved in the activity. Environmental or background noise can be classified with a high degree of accuracy using recordings from microphones commonly found in PDAs and other consumer devices. We describe an acoustic environment recognition system incorporating an adaptive learning mechanism and its use ...

**Keywords**: Acoustic environment, Adaptive feedback, Classification, Context awareness, Machine learning, Mobile computing

10 Continuous speech recognition I: Acoustic modeling of subword units for large vocabulary speaker independent speech recognition

Chin-Hui Lee, Lawrence R. Rabiner, Roberto Pieraccini, Jay G. Wilpon

October 1989 **Proceedings of the workshop on Speech and Natural Language HLT '89**

**Publisher:** Association for Computational Linguistics

Full text available: pdf(904.19 KB) Additional Information: full citation, abstract, references

The field of large vocabulary, continuous speech recognition has advanced to the point where there are several systems capable of attaining between 90 and 95% word accuracy for speaker independent recognition of a 1000 word vocabulary, spoken fluently for a task with a perplexity (average word branching factor) of about 60. There are several factors which account for the high performance achieved by these systems, including the use of hidden Markov models (HMM) for acoustic modeling, the use of ...

11 Planning the acoustic urban environment: a GIS-centered approach

Maria Piedade G. Oliveira, Eduardo Bauzer Medeiros, Clodoveu A. Davis

November 1999 **Proceedings of the 7th ACM international symposium on Advances in geographic information systems**

**Publisher:** ACM Press

Full text available: pdf(114.98 KB) Additional Information: full citation, references, index terms

**Keywords:** geographic applications, pollution control, urban noise

12 Analysis and modeling of F0 contours for cantonese text-to-speech

Yujia Li, Tan Lee, Yao Qian

September 2004 **ACM Transactions on Asian Language Information Processing (TALIP)**, Volume 3 Issue 3

**Publisher:** ACM Press

Full text available: pdf(969.61 KB) Additional Information: full citation, abstract, references, index terms

For the generation of highly natural synthetic speech, the control of prosody is of primary importance. The fundamental frequency (F0) is one of the most important components of speech prosody. This research investigates the variation of F0 in continuous Cantonese speech, with the goal of establishing an effective mechanism of prosody control in Cantonese text-to-speech (TTS) applications. Cantonese is a commonly used Chinese dialect that is well known for being rich in tones. This article de ...

**Keywords:** Chinese dialects, Text-to-speech, fundamental frequency, prosody, tones

13 Modeling acoustics in virtual environments using the uniform theory of diffraction

Nicolas Tsingos, Thomas Funkhouser, Addy Ngan, Ingrid Carlbom

August 2001 **Proceedings of the 28th annual conference on Computer graphics and interactive techniques**

**Publisher:** ACM Press

Full text available: pdf(6.03 MB) Additional Information: full citation, abstract, references, citings, index terms

Realistic modeling of reverberant sound in 3D virtual worlds provides users with important cues for localizing sound sources and understanding spatial properties of the environment. Unfortunately, current geometric acoustic modeling systems do not accurately simulate reverberant sound. Instead, they model only direct transmission and specular reflection, while diffraction is either ignored or modeled through statistical approximation. However, diffraction is important for correct interpretati ...

14 Acoustic modeling: Subphonetic modeling for speech recognition
Mei-Yuh Hwang, Xuedong Huang
February 1992 **Proceedings of the workshop on Speech and Natural Language HLT '91**
**Publisher:** Association for Computational Linguistics
Full text available: pdf(611.33 KB) Additional Information: full citation, abstract, references

How to capture important acoustic clues and estimate essential parameters reliably is one of the central issues in speech recognition, since we will never have sufficient training data to model various acoustic-phonetic phenomena. Successful examples include subword models with many smoothing techniques. In comparison with subword models, subphonetic modeling may provide a finer level of details. We propose to model subphonetic events with Markov states and treat the state in phonetic hidden Mar ...

15 Computer graphics visualization for acoustic simulation
A. Stettner, D. P. Greenberg
July 1989 **ACM SIGGRAPH Computer Graphics , Proceedings of the 16th annual conference on Computer graphics and interactive techniques SIGGRAPH '89**, Volume 23 Issue 3
**Publisher:** ACM Press
Full text available: pdf(14.64 MB) Additional Information: full citation, abstract, references, citings, index terms

Computer simulations can be used to generate the spatial and temporal data describing the acoustical behavior of performance halls, but typically the analytical results are difficult to assimilate and compare. By using computer graphics to display the multi-dimensional data, substantially greater amounts of information than that conveyed by standard techniques can be communicated to the designer. This allows designs of different acoustical spaces to be tested, evaluated, and compared.An example ...

16 Acoustic modeling and robust CSR: High-accuracy large-vocabulary speech recognition using mixture tying and consistency modeling
Vassilios Digalakis, Hy Murveit
March 1994 **Proceedings of the workshop on Human Language Technology HLT '94**
**Publisher:** Association for Computational Linguistics
Full text available: pdf(587.65 KB) Additional Information: full citation, abstract, references

Improved acoustic modeling can significantly decrease the error rate in large-vocabulary speech recognition. Our approach to the problem is twofold. We first propose a scheme that optimizes the degree of mixture tying for a given amount of training data and computational resources. Experimental results on the Wall Street Journal (WSJ) Corpus show that this new form of output distribution achieves a 25% reduction in error rate over typical tied-mixture systems. We then show that an additional imp ...

17 Geophysical modeling-migration viewed as a spectrum of supercomputer applications
Olin G. Johnson, Oliver Lhemann
November 1986 **Proceedings of 1986 ACM Fall joint computer conference**
**Publisher:** IEEE Computer Society Press
Full text available: pdf(1.33 MB) Additional Information: full citation, references, index terms

18 Toward a unified approach to statistical language modeling for Chinese
Jianfeng Gao, Joshua Goodman, Mingjing Li, Kai-Fu Lee
March 2002 **ACM Transactions on Asian Language Information Processing (TALIP)**,

Volume 1 Issue 1
**Publisher:** ACM Press

Full text available: pdf(1.19 MB) Additional Information: full citation, abstract, references, citings, index terms

This article presents a unified approach to Chinese statistical language modeling (SLM). Applying SLM techniques like trigram language models to Chinese is challenging because (1) there is no standard definition of words in Chinese; (2) word boundaries are not marked by spaces; and (3) there is a dearth of training data. Our unified approach automatically and consistently gathers a high-quality training data set from the Web, creates a high-quality lexicon, segments the training data using this ...

**Keywords**: Chinese language, Chinese pinyin-to-character conversion, backoff, character error rate, domain adaptation, lexicon, n-gram model, perplexity, pruning, smoothing, statistical language modeling, word segmentation

**19** Modeling and simulating electronic textile applications

Thomas Martin, Mark Jones, Joshua Edmison, Tanwir Sheikh, Zahi Nakad
June 2004 **ACM SIGPLAN Notices , Proceedings of the 2004 ACM SIGPLAN/SIGBED conference on Languages, compilers, and tools for embedded systems LCTES '04**, Volume 39 Issue 7
**Publisher:** ACM Press
Full text available: pdf(421.80 KB) Additional Information: full citation, abstract, references, index terms

This paper describes our design of a simulation environment for electronic textiles (e-textiles) and our experiences with that environment. This simulation environment, based upon Ptolemy II, enables us to model a diverse range of areas related to the design of electronic textiles, including the physical environment they will be used in, the behavior of the sensors incorporated into the fabric, the on-fabric network, the power consumption of the system, and the execution of the application and s ...

**Keywords**: context awareness, electronic textiles, smart fabrics, wearable computing

**20** Distributed computation of wave propagation models using PVM

J. S. Sochacki, D. Mitchum, P. O'Leary, R. E. Ewing, R. C. Sharpley
December 1993 **Proceedings of the 1993 ACM/IEEE conference on Supercomputing**
**Publisher:** ACM Press
Full text available: pdf(1.18 MB) Additional Information: full citation, references, index terms

SCIENCE DIRECT Register or Login: user name Password: Go Athens/Institution Log

Home | Search | Journals | Books | Abstract Databases | My Profile | Alerts | Help

Quick Search: within All Full-text Sources Go Search Tips

**No results were found**
**Click the search tips link on the search form below for additional information.**

All Sources | Journals | Books | Reference Works | Abstract Databases | Scirus

Basic | Advanced

Enter terms using Boolean connectors (ex: cat OR feline AND nutrition)

**Term(s):** (waveguide* w/15 design) and acoustic and (waveguide* w/15 section*) and concatenat!

**Sources:** ☑ Journals ☑ Book Series ☑ Handbooks ☑ Reference Works ☐ Abstract Databases

select one or more:

**Subject:**
- All Sciences -
Agricultural and Biological Sciences
Arts and Humanities
Biochemistry, Genetics and Molecular Biology

Hold down the Ctrl key (or ⌘ key) to select multiple entries.

**Dates:** ◉ 1992 to: 2003 ○ All Years

Search | Clear | Recall Search | Search Tips

**Search History** - Turn On

Search for articles from our full-text collection and abstracts database using this search form. Click the **Help** button for step-by-step instructions on conducting a search using this form. Consult the Search Tips for information about the use of connectors, wildcards, and other search options which can improve the precision of your search.

Home | Search | Journals | Books | Abstract Databases | My Profile | Alerts | Help

results **1 - 1**

## 1 Articles Found

pub-date > 1991 and pub-date < 2004 and (waveguide* w/15 design) and acoustic and section* a concatenat!

Edit Search | Save Search | Save as Search Alert Search Withi

Article List | Partial Abstracts | Full Abstracts

display checked docs | e-mail articles | export citations Sort By: Date Go

1. ☐ **Audio signal processing by neural networks** • ARTICLE
*Neurocomputing, Volume 55, Issues 3-4, October 2003, Pages 593-625*
Aurelio Uncini
SummaryPlus | Full Text + Links | PDF (1005 K)

## 1 Articles Found

pub-date > 1991 and pub-date < 2004 and (waveguide* w/15 design) and acoustic and section* and concatenat!

Edit Search | Save Search | Save as Search Alert

results **1 - 1**

results **1 - 6**

## 6 Articles Found

pub-date > 1991 and pub-date < 2004 and waveguide* and design! and acoustic and section* and concatenat!



1. ☐ **Audio signal processing by neural networks** • ARTICLE
*Neurocomputing, Volume 55, Issues 3-4, October 2003, Pages 593-625*
Aurelio Uncini
SummaryPlus | Full Text + Links | PDF (1005 K)

2. ☐ **Digital sound synthesis of string instruments with the functional transformation method** • ARTICLE
*Signal Processing, Volume 83, Issue 8, August 2003, Pages 1673-1688*
Rudolf Rabenstein and Lutz Trautmann
SummaryPlus | Full Text + Links | PDF (374 K)

3. ☐ **Telecommunications system technologies for the near spacecraft** • ARTICLE
*Acta Astronautica, Volume 39, Issues 1-4, July-August 1996, Pages 171-180*
R. S. Bokulic, J. R. Jensen and T. R. McKnight
Abstract | Abstract + References | PDF (728 K)

4. ☐ **Radiation and scattering of waves on an elastic half-space; A non-commutative matrix Wiener-Hopf problem** • ARTICLE
*Journal of the Mechanics and Physics of Solids, Volume 44, Issue 12, December 1996, Pages 2125-2154*
I. D. Abrahams
Abstract | Abstract + References | PDF (1825 K)

5. ☐ **Recent progress in fibre optics** • ARTICLE
*Progress in Quantum Electronics, Volume 18, Issue 1, 1994, Pages 39-95*
Giovanni Cancellieri and Franco Chiaraluce
Abstract

6. ☐ **Optical fibres, lasers, and amplifiers** • ARTICLE
*Endeavour, Volume 16, Issue 1, 1992, Pages 17-22*
W. Alex Gambling
Abstract

## 6 Articles Found

pub-date > 1991 and pub-date < 2004 and waveguide* and design! and acoustic and section* and concatenat!

Edit Search | Save Search | Save as Search Alert

results **1 - 6**

results **1 - 1**

## 1 Articles Found

pub-date > 1991 and pub-date < 2004 and waveguide* w/15 section* and design! and acoustic an concatenat!

Edit Search | Save Search | Save as Search Alert Search Withi

Article List | Partial Abstracts | Full Abstracts

display checked docs | e-mail articles | export citations Sort By: Date Go

1. ☐ **Recent progress in fibre optics** • ARTICLE
*Progress in Quantum Electronics, Volume 18, Issue 1, 1994, Pages 39-95*
Giovanni Cancellieri and Franco Chiaraluce
Abstract

## 1 Articles Found

pub-date > 1991 and pub-date < 2004 and waveguide* w/15 section* and design! and acoustic and concatenat!

Edit Search | Save Search | Save as Search Alert

results **1 - 1**

results **1 - 59**

## 59 Articles Found

pub-date > 1991 and pub-date < 2004 and waveguide* w/15 section* and design! and acoustic an



1. **Vibration reduction in piecewise bi-coupled periodic structures** • ARTICLE
*Journal of Sound and Vibration, Volume 268, Issue 3, 27 November 2003, Pages 601-615*
F. Romeo and A. Luongo
SummaryPlus | Full Text + Links | PDF (704 K)

2. **A spectral finite element with embedded delamination for modeling of wave scattering in composite beams** • ARTICLE
*Composites Science and Technology, Volume 63, Issue 15, November 2003, Pages 2187-2200*
A. Nag, D. Roy Mahapatra, S. Gopalakrishnan and T. S. Sankar
SummaryPlus | Full Text + Links | PDF (481 K)

3. **Feasibility of tunable MEMS photonic crystal devices** • ARTICLE
*Ultramicroscopy, Volume 97, Issues 1-4, October-November 2003, Pages 473-479*
S. Rajic, J. L. Corbeil and P. G. Datskos
SummaryPlus | Full Text + Links | PDF (400 K)

4. **Proton exchanged $LiNbO_3$ and $LiTaO_3$ optical waveguides and integrated optic devices** • ARTICLE
*Microelectronic Engineering, Volume 69, Issues 2-4, September 2003, Pages 228-236*
Yu. N. Korkishko, V. A. Fedorov, S. M. Kostritskii, A. N. Alkaev, E. I. Maslennikov, E. M. Paderin, D. V. Apraksin and F. Laurell
SummaryPlus | Full Text + Links | PDF (357 K)

5. **Finite-amplitude waves in isotropic elastic plates** • ARTICLE
*Journal of Sound and Vibration, Volume 265, Issue 4, 21 August 2003, Pages 819-839*
W. J. N. de Lima and M. F. Hamilton
SummaryPlus | Full Text + Links | PDF (312 K)

6. **DSC time-domain solution of Maxwell's equations** • ARTICLE
*Journal of Computational Physics, Volume 189, Issue 2, 10 August 2003, Pages 427-453*
Zhenhai Shao, G. W. Wei and Shan Zhao
SummaryPlus | Full Text + Links | PDF (599 K)

7. ☐ **Prediction of acoustic fields radiated into a damped cavity by an *N*-port source through ducts** • ARTICLE
*Journal of Sound and Vibration, Volume 264, Issue 3, 10 July 2003, Pages 499-521*
M. Boudoy and V. Martin
SummaryPlus | Full Text + Links | PDF (979 K)

---

8. ☐ **Label-free highly sensitive detection of (small) molecules by wavelength interrogation of integrated optical chips** • ARTICLE
*Sensors and Actuators B: Chemical, Volume 91, Issues 1-3, 1 June 2003, Pages 241-251*
K. Cottier, M. Wiki, G. Voirin, H. Gao and R. E. Kunz
SummaryPlus | Full Text + Links | PDF (571 K)

---

9. ☐ **A spectrally formulated finite element for wave propagation analysis in functionally graded beams** • ARTICLE
*International Journal of Solids and Structures, Volume 40, Issue 10, May 2003, Pages 2421-2448*
A. Chakraborty and S. Gopalakrishnan
SummaryPlus | Full Text + Links | PDF (711 K)

---

10. ☐ **Shape optimization of an acoustic horn** • ARTICLE
*Computer Methods in Applied Mechanics and Engineering, Volume 192, Issues 11-12, 14 March 2003, Pages 1533-1571*
Erik Bängtsson, Daniel Noreland and Martin Berggren
SummaryPlus | Full Text + Links | PDF (438 K)

---

11. ☐ **Comparison of nondestructive microfailure evaluation of fiber-optic Bragg grating and acoustic emission piezoelectric sensors using fragmentation test** • ARTICLE
*Composites Part A: Applied Science and Manufacturing, Volume 34, Issue 3, 1 March 2003, Pages 203-216*
Joung-Man Park, Sang-Il Lee, Oh-Yang Kwon, Heung-Soap Choi and Joon-Hyun Lee
SummaryPlus | Full Text + Links | PDF (443 K)

---

12. ☐ **High-order non-reflecting boundary conditions for dispersive waves** • ARTICLE
*Wave Motion, Volume 37, Issue 3, March 2003, Pages 257-271*
Dan Givoli and Beny Neta
SummaryPlus | Full Text + Links | PDF (369 K)

---

13. ☐ **Penetration of an electrostatic field from the lithosphere into the ionosphere and its effect on the D-region before earthquakes** • ARTICLE
*Journal of Atmospheric and Solar-Terrestrial Physics, Volume 65, Issue 4, March 2003, Pages 391-407*
V. V. Grimalsky, M. Hayakawa, V. N. Ivchenko, Yu. G. Rapoport and V. I. Zadorozhnii
SummaryPlus | Full Text + Links | PDF (664 K)

---

14. ☐ **Energetics of axisymmetric fluid-filled pipes up to high frequencies** • ARTICLE
*Journal of Fluids and Structures, Volume 17, Issue 4, March 2003, Pages 491-510*
A. Bocquillet, M. N. Ichchou and L. Jezequel
SummaryPlus | Full Text + Links | PDF (373 K)

---

15. ☐ **Self-sensing E-glass fibres** • ARTICLE
*Optical Materials, Volume 21, Issue 4, February 2003, Pages 713-727*
G. Kister, L. Wang, B. Ralph and G. F. Fernando
SummaryPlus | Full Text + Links | PDF (507 K)

---

16. ☐ **Micromachined optical waveguide cantilever as a resonant optical scanner** • ARTICLE
*Sensors and Actuators A: Physical, Volume 102, Issues 1-2, 1 December 2002, Pages 165-175*
Wei-Chih Wang, Mark Fauver, Joe Nhut Ho, Eric J. Seibel and Per G. Reinhall
SummaryPlus | Full Text + Links | PDF (651 K)

---

17. ☐ **Three-dimensional reconstruction of refractive index inhomogeneities in optical phase elements** • ARTICLE
*Optics and Lasers in Engineering, Volume 38, Issue 6, December 2002, Pages 373-385*
Witold Górski and Małgorzata Kujawińska
SummaryPlus | Full Text + Links | PDF (426 K)

---

18. ☐ **Chaos, fractional kinetics, and anomalous transport** • REVIEW ARTICLE
*Physics Reports, Volume 371, Issue 6, December 2002, Pages 461-580*
G. M. Zaslavsky
SummaryPlus | Full Text + Links | PDF (7129 K)

---

19. ☐ **Optical solitons due to quadratic nonlinearities: from basic physics to futuristic applications** • REVIEW ARTICLE
*Physics Reports, Volume 370, Issue 2, November 2002, Pages 63-235*
Alexander V. Buryak, Paolo Di Trapani, Dmitry V. Skryabin and Stefano Trillo
SummaryPlus | Full Text + Links | PDF (2618 K)

---

20. ☐ **Book reports** • BOOK REVIEW
*Computers & Mathematics with Applications, Volume 44, Issues 10-11, November-December 2002, Pages 1479-1492*
Abstract | Abstract + References | PDF (1812 K)

---

21. ☐ **Acoustic scattering in waveguides that are discontinuous in geometry and material property** • ARTICLE
*Wave Motion, Volume 36, Issue 2, August 2002, Pages 119-142*
D. P. Warren, J. B. Lawrie and I. M. Mohamed
SummaryPlus | Full Text + Links | PDF (225 K)

---

22. ☐ **Archeops: a high resolution, large sky coverage balloon experiment for mapping cosmic microwave background anisotropies** • ARTICLE
*Astroparticle Physics, Volume 17, Issue 2, May 2002, Pages 101-124*
A. Benoît, P. Ade, A. Amblard, R. Ansari, E. Aubourg, J. Bartlett, J. -P. Bernard, R. S. Bhatia, A. Blanchard, J. J. Bock *et al.*
SummaryPlus | Full Text + Links | PDF (703 K)

---

23. ☐ **Acoustic wave generation by microwaves and applications to nondestructive evaluation** • ARTICLE
*Ultrasonics, Volume 40, Issues 1-8, May 2002, Pages 419-426*

Bernard Hosten, Christophe Bacon and Emmanuel Guilliorit
SummaryPlus | Full Text + Links | PDF (306 K)

---

24. ☐ **Synthesis of single- and multi-mode planar optical waveguides by a direct numerical solution of the Gel'fand–Levitan–Marchenko integral equation** • ARTICLE
*Optics Communications, Volume 203, Issues 1-2, 1 March 2002, Pages 27-37*
Ch. Papachristos and P. Frangos
SummaryPlus | Full Text + Links | PDF (512 K)

---

25. ☐ **Numerical modeling of acoustic emission in laminated tensile test specimens** • ARTICLE
*International Journal of Solids and Structures, Volume 38, Issues 36-37, September 2001, Pages 6643-6663*
Mats Åberg
SummaryPlus | Full Text + Links | PDF (430 K)

---

26. ☐ **Giant magnonic band gaps and defect modes in serial stub structures: application to the tunneling between two wires** • ARTICLE
*Surface Science, Volumes 482-485, Part 2, 20 June 2001, Pages 1062-1067*
A. Akjouj, A. Mir, B. Djafari-Rouhani, J. O. Vasseur, L. Dobrzynski, H. Al-Wahsh and P. A. Deymier
SummaryPlus | Full Text + Links | PDF (111 K)

---

27. ☐ **The decay of quantum systems with a small number of open channels** • REVIEW ARTICLE
*Physics Reports, Volume 339, Issue 4, December 2000, Pages 215-316*
Frank-Michael Dittes
SummaryPlus | Full Text + Links | PDF (1462 K)

---

28. ☐ **Energy partition and attenuation of Lg waves by numerical simulations using screen propagators** • ARTICLE
*Physics of The Earth and Planetary Interiors, Volume 120, Issue 3, July 2000, Pages 227-243*
Ru-Shan Wu, Shengwen Jin and Xiao-Bi Xie
SummaryPlus | Full Text + Links | PDF (4972 K)

---

29. ☐ **Light propagation in square law media with random imperfections** • ARTICLE
*Wave Motion, Volume 31, Issue 1, January 2000, Pages 1-19*
J. Garnier
SummaryPlus | Full Text + Links | PDF (258 K)

---

30. ☐ **Exact one-way methods for acoustic waveguides** • ARTICLE
*Mathematics and Computers in Simulation, Volume 50, Issues 5-6, 1 December 1999, Pages 377-391*
Ya Yan Lu
SummaryPlus | Full Text + Links | PDF (178 K)

---

31. ☐ **Leak detection system in ITER** • ARTICLE
*Fusion Engineering and Design, Volume 46, Issue 1, October 1999, Pages 11-26*

S. Hiroki, P. Ladd, K. Shaubel, G. Janeschitz and R. A. Marrs
SummaryPlus | Full Text + Links | PDF (461 K)

---

32. ☐ **Inspection of power plant headers utilizing acoustic emission monitoring** • ARTICLE
*NDT & E International, Volume 32, Issue 3, April 1999, Pages 167-175*
Bryan C. Morgan and Richard Tilley
SummaryPlus | Full Text + Links | PDF (983 K)

---

33. ☐ **Sound radiation in a planar trifurcated lined duct** • ARTICLE
*Wave Motion, Volume 29, Issue 2, February 1999, Pages 157-174*
Mahmood-ul-Hassan and A. D. Rawlins
Abstract | Abstract + References | PDF (1104 K)

---

34. ☐ **Surface magnetoplasma waves at the interface between a plasma-like medium and a metal in the Voigt geometry** • ARTICLE
*Physics Reports, Volume 308, Issues 5-6, February 1999, Pages 333-428*
N. A. Azarenkov and K. N. Ostrikov
SummaryPlus | Full Text + Links | PDF (684 K)

---

35. ☐ **Modelling of horn-type loudspeakers for outdoor sound reinforcement systems** • ARTICLE
*Applied Acoustics, Volume 56, Issue 1, January 1999, Pages 25-37*
A. Schuhmacher and K. B. Rasmussen
SummaryPlus | Full Text + Links | PDF (217 K)

---

36. ☐ **Acoustic resonances in the presence of radial fins in circular cylindrical waveguides** • ARTICLE
*Wave Motion, Volume 28, Issue 2, September 1998, Pages 99-117*
C. M. Linton and P. McIver
Abstract | Abstract + References | PDF (1267 K)

---

37. ☐ **Towards in-situ ultrasonic transmission measurement of melt crusts above 2000 °C** • ARTICLE
*Ultrasonics, Volume 36, Issues 1-5, February 1998, Pages 251-255*
Christophe Journeau and Philippe Ducret
Abstract | Abstract + References | PDF (534 K)

---

38. ☐ **Reciprocity and energy theorems for waves in a compressible inhomogeneous moving fluid** • ARTICLE
*Wave Motion, Volume 25, Issue 2, March 1997, Pages 143-167*
Oleg A. Godin
Abstract | Abstract + References | PDF (2280 K)

---

39. ☐ **Transmission line matrix acoustic modelling on a PC** • ARTICLE
*Applied Acoustics, Volume 50, Issue 3, March 1997, Pages 247-255*
W. O'Connor and F. Cavanagh
Abstract | Abstract + References | PDF (536 K)

---

40. ☐ **A method for increased accuracy of the measurement of relative phase velocity** • ARTICLE

*Ultrasonics, Volume 35, Issue 1, February 1997, Pages 17-29*
M. Peterson
Abstract | Abstract + References | PDF (1475 K)

---

41. ☐ **Optical microphone transduction techniques** • ARTICLE
*Applied Acoustics, Volume 50, Issue 1, January 1997, Pages 35-63*
Nykolai Bilaniuk
Abstract | Abstract + References | PDF (2006 K)

---

42. ☐ **Microwave ceramics for resonators and filters** • ARTICLE
*Current Opinion in Solid State and Materials Science, Volume 1, Issue 5, October 1996, Pages 715-731*
Wolfram Wersing
Abstract | Abstract + References | PDF (1980 K)

---

43. ☐ **Optical strength of semiconductor laser materials** • REVIEW ARTICLE
*Progress in Quantum Electronics, Volume 20, Issue 1, 1996, Pages 1-82*
P. G. Eliseev
Abstract | Abstract + References | PDF (8259 K)

---

44. ☐ **Variable phase coupling coefficient for leaky waves on spheres and cylinders from resonance scattering theory** • ARTICLE
*Wave Motion, Volume 22, Issue 1, August 1995, Pages 65-74*
Philip L. Marston
Abstract | Abstract + References | PDF (949 K)

---

45. ☐ **Surface acoustic waves in nonlinear elastic media** • REVIEW ARTICLE
*Physics Reports, Volume 256, Issues 4-5, May 1995, Pages 237-366*
Andreas P. Mayer
Abstract | Abstract + References | PDF (10322 K)

---

46. ☐ **Micro and macrostructural dispersion of guided waves in solids** • ARTICLE
*Wave Motion, Volume 21, Issue 1, February 1995, Pages 101-114*
D. E. Chimenti and B. A. Auld
Abstract | Abstract + References | PDF (1308 K)

---

47. ☐ **Femtosecond optical pulse shaping and processing** • REVIEW ARTICLE
*Progress in Quantum Electronics, Volume 19, Issue 3, 1995, Pages 161-237*
A. M. Weiner
Abstract | Abstract + References | PDF (6889 K)

---

48. ☐ **Quantum ballistic transport in semiconductor nanostructures; effect of smooth features in confining potentials** • ARTICLE
*Computational Materials Science, Volume 3, Issue 1, September 1994, Pages 78-94*
Tomas Lundberg
Abstract

---

49. ☐ **Physics and chemistry in space 23. Planetology: Magnetosphere-ionosphere Coupling : KAMIDE Y. and BAUMJOHANN W., 1993, 178 pp., Springer, DM 198 hb,**

**ISBN 3-540-55983-3** • **BOOK REVIEW**
*Journal of Atmospheric and Terrestrial Physics, Volume 56, Issue 10, August 1994, Pages 1421-1422*
M. J. Rycroft
Abstract

---

50. ☐ **Recent progress in fibre optics** • **ARTICLE**
*Progress in Quantum Electronics, Volume 18, Issue 1, 1994, Pages 39-95*
Giovanni Cancellieri and Franco Chiaraluce
Abstract

---

51. ☐ **Geotechnical field applications of AE/MS techniques at the Pennsylvania State University: a historical review** • **ARTICLE**
*NDT & E International, Volume 27, Issue 4, 1994, Pages 191-200*
H. Reginald Hardy, Jr.
Abstract

---

52. ☐ **Coupled extensional and bending motion in elastic waveguides** • **ARTICLE**
*Wave Motion, Volume 17, Issue 4, August 1993, Pages 319-327*
Douglas S. Drumheller
Abstract

---

53. ☐ **Acoustic sensors based on surface-localized HPSWs for measurements in liquids** • **ARTICLE**
*Sensors and Actuators A: Physical, Volumes 37-38, June-August 1993, Pages 141-148*
H. Drobe, A. Leidl, M. Rost and I. Ruge
Abstract

---

54. ☐ **Detection of displacements in the nanometre range by optical tunnelling** • **ARTICLE**
*Sensors and Actuators A: Physical, Volumes 37-38, June-August 1993, Pages 577-581*
A. DiasproM. AguilarB. Bianco
Abstract

---

55. ☐ **Introduction to ionospheric heating at Tromsø—I. Experimental overview** • **ARTICLE**
*Journal of Atmospheric and Terrestrial Physics, Volume 55, Issues 4-5, March-April 1993, Pages 577-599*
M. T. Rietveld, H. Kohl, H. Kopka and P. Stubbe
Abstract

---

56. ☐ **Matrix representations of propagation and scattering operations** • **ARTICLE**
*Signal Processing, Volume 29, Issue 3, December 1992, Pages 299-307*
John A. TagueLeon H. Sibul and Adam N. Mirkin
Abstract

---

57. ☐ **Power flow between two continuous one-dimensional subsystems: A wave solution** • **ARTICLE**
*Journal of Sound and Vibration, Volume 154, Issue 2, 22 April 1992, Pages 289-319*
B. R. Mace
Abstract

---

58. ☐ **Surface acoustic wave gas sensors** • ARTICLE
*Sensors and Actuators B: Chemical, Volume 8, Issue 1, April 1992, Pages 33-40*
Zdravko P. Khlebarov, Any I. Stoyanova and Diana I. Topalova
Abstract

---

59. ☐ **On the mechanical behavior of aluminum alloys reinforced by long or short alumina fibers or SiC whiskers** • ARTICLE
*Composites Science and Technology, Volume 44, Issue 4, 1992, Pages 369-383*
M. Touratier and A. BéakouJ. Y. Chatellier
Abstract

---

## 59 Articles Found

pub-date > 1991 and pub-date < 2004 and waveguide* w/15 section* and design! and acoustic and model!

Edit Search | Save Search | Save as Search Alert

results **1 - 59**